

09/929023

PLUS  
Search

09929023 WEST

(6094496 5687230 5299132 5398190 5513111 5519621 5652707 5832394 58842  
21 6148202 4945570 5182765 5845207 5903135 5978689 6154666 6195572 610  
8566 5668869 4811390 5588041 5634209 5649316 6058319 5243640 5459702 5  
509048 5535258 5555448 6031492 5915239 6012105 6236969 5953674 6002945  
6014573 6047196 6081724 6081594 6122531 6125289 6138040 6192126 62231  
54 6226529 6223154 6226529 6259932 6377825 6567651).pn.

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PLUS Search Results for S/N 09929023, Searched July 01, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are

most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

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6259932  
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09929023\_CLS  
Most Frequently Occurring Classifications of Patents Returned  
From A Search of 09929023 on July 01, 2004

Original Classifications

4	455/569.2
3	455/556.1
3	455/557
3	455/569.1
2	379/420.02
2	455/345
2	455/456.3
2	455/564
2	455/570
2	704/233
2	704/275

Cross-Reference Classifications

6	455/351
4	340/990
4	455/563
3	379/388.04
3	379/420.03
3	455/457
3	455/557
3	455/566
3	455/569.1
3	455/569.2
3	455/575.9
2	340/995.12
2	342/457
2	343/711
2	343/807
2	370/493
2	370/494
2	370/495
2	379/354
2	379/388.03
2	379/88.01
2	381/365
2	381/57
2	455/128
2	455/456.1
2	455/570
2	455/575.7
2	701/207
2	701/225
2	704/270

Combined Classifications

7 455/569.2  
6 455/351  
6 455/557  
6 455/569.1  
5 455/563  
4 340/990  
4 455/457  
4 455/556.1  
4 455/570  
3 379/388.04  
3 379/420.03  
3 455/345  
3 455/566  
3 455/575.9  
2 340/995.12  
2 342/457  
2 343/711  
2 343/807  
2 370/493  
2 370/494  
2 370/495  
2 379/354  
2 379/388.03  
2 379/390.01  
2 379/420.02  
2 379/88.01  
2 379/88.04  
2 381/365  
2 381/57  
2 455/128  
2 455/456.1  
2 455/456.3  
2 455/564  
2 455/575.1  
2 455/575.7  
2 455/99  
2 701/207  
2 701/225  
2 704/233  
2 704/270  
2 704/275

able 1  
above 3  
abstract 1  
accessories 1  
accommodate 1  
accommodates 1  
adapted 1  
adjacent 6  
adjust 1  
advantage 3  
after 1  
air 1  
aligned 1  
all 2  
allow 3  
allowing 2  
allows 2  
almost 2  
also 1  
ambient 1  
an 7  
and 71  
ann 1  
another 5  
answered 1  
any 2  
apparent 1  
approach 2  
approaches 2  
arc 1  
are 10  
arm 4  
around 4  
arranged 1  
arrangement 4  
arrangements 1  
art 1  
as 10  
assembly 2  
at 7  
attached 1  
attempt 1  
audio 1  
avoids 1  
background 1  
battery 1  
be 6  
been 2

behind 2  
between 5  
both 4  
brief 1  
broadcast 1  
broadly 1  
bushings 6  
by 9  
call 1  
calls 1  
cannot 1  
captures 1  
car 1  
cd 1  
center 2  
centerline 3  
charge 1  
cigarette 1  
clarity 1  
close 2  
coincident 2  
column 1  
combination 3  
communicate 2  
communicated 2  
complains 1  
completely 1  
comprised 5  
concerns 2  
conditioning 1  
conditions 1  
configuration 1  
configured 1  
congested 1  
conjunction 1  
connect 3  
connected 1  
connecting 6  
connections 1  
console 1  
constrain 1  
constrained 1  
continues 1  
controls 2  
convenience 1  
conventional 1  
conversation 1  
countries 1

coupled 6  
 couples 1  
 currently 1  
 dash 1  
 dashboard 5  
 depicts 1  
 described 2  
 description 2  
 designed 1  
 detached 1  
 detailed 1  
 details 1  
 device 47  
 devices 2  
 diameter 2  
 diameters 1  
 different 4  
 difficulty 2  
 dimensions 1  
 direction 1  
 discerning 1  
 disclosure 1  
 does 2  
 down 2  
 drawings 3  
 drive 1  
 driver 7  
 drivers 4  
 driving 1  
 during 1  
 each 1  
 ear 2  
 ease 1  
 easily 2  
 effortless 1  
 electrically 3  
 elongated 12  
 embodiment 2  
 embodiments 1  
 embraces 1  
 employ 1  
 employing 2  
 employs 2  
 end 6  
 engage 3  
 ensure 1  
 environment 1  
 environments 1

epo 1  
equipped 1  
especially 1  
established 1  
european 1  
even 1  
exact 1  
examples 1  
exceedingly 1  
exist 1  
expeditious 1  
express 1  
extend 1  
extends 1  
far 1  
fastened 2  
fastener 6  
field 1  
fig 7  
figure 1  
finally 1  
first 3  
flexible 4  
fm 1  
followed 4  
following 1  
follows 1  
for 14  
frcc 1  
free 28  
frequently 1  
from 6  
further 2  
generally 7  
granted 1  
greatly 1  
hand 2  
hands 30  
handsets 1  
handsfree 1  
has 2  
have 2  
having 3  
he 2  
head 7  
headrest 37  
hear 2  
hearing 1

heating 1  
hen 1  
highly 3  
hold 1  
holding 1  
host 2  
housing 10  
idea 1  
if 1  
iimer 1  
il 1  
illustrates 2  
illustration 2  
improve 1  
in 43  
include 1  
included 1  
includes 7  
incoming 1  
inconvenience 1  
incorporates 1  
incorporating 2  
increased 1  
infbrmation 1  
information 1  
ingenious 1  
inherent 1  
inherently 1  
inner 1  
install 1  
installation 2  
installed 1  
instant 2  
integrally 2  
integrated 1  
intended 2  
intermediate 1  
intersects 2  
into 4  
invention 15  
involved 1  
involves 3  
irrespective 1  
is 41  
it 3  
its 4  
just 2  
keep 1

kit 1  
kits 4  
laws 2  
lighter 1  
lights 1  
like 1  
limiting 1  
line 2  
listener 1  
located 1  
locating 1  
location 2  
long 1  
loud 4  
louder 1  
ly 1  
maimer 1  
majority 1  
manner 3  
manually 1  
marked 1  
massive 1  
matching 1  
mating 3  
may 2  
means 1  
mention 1  
messages 1  
method 5  
microphone 28  
mobile 25  
module 7  
moment 1  
more 5  
motor 1  
mounted 6  
mounting 7  
mounts 1  
mouth 2  
movable 4  
moved 1  
movement 1  
myriad 1  
nature 1  
nearly 1  
necessity 1  
neck 5  
need 3

no 1  
noise 1  
non 1  
not 2  
noted 4  
november 1  
now 1  
numerals 1  
object 1  
objective 2  
obvious 1  
occupant 12  
occurs 1  
of 122  
on 14  
one 4  
operating 1  
or 2  
other 5  
others 1  
over 3  
overall 1  
pair 9  
pans 1  
parallel 2  
part 1  
partial 1  
particular 1  
particularly 1  
party 1  
passes 1  
passing 1  
patent 1  
performance 1  
perpendicular 3  
phone 28  
phones 5  
physical 1  
physically 3  
pick 1  
pillar 8  
pillars 23  
placed 1  
plate 6  
player 1  
plurality 1  
portable 2  
portion 12

position 2  
 positionable 2  
 positionally 1  
 positioned 1  
 positioning 2  
 positions 1  
 power 2  
 preferred 2  
 present 2  
 primary 1  
 prior 2  
 problem 1  
 problems 1  
 procedure 1  
 produces 1  
 prohibit 1  
 projection 2  
 proliferation 1  
 provide 2  
 provided 5  
 provides 1  
 providing 2  
 provision 1  
 proximate 2  
 proximity 1  
 proxinuty 1  
 quite 1  
 radio 3  
 range 1  
 rarely 1  
 rather 1  
 readily 1  
 receive 1  
 recent 1  
 recently 1  
 receptacles 1  
 reduces 1  
 reference 2  
 region 2  
 reinstalling 1  
 relates 1  
 relationship 7  
 relative 1  
 remarkably 1  
 removing 2  
 represent 1  
 resides 4  
 response 2

returning 1  
roof 1  
rotatably 1  
safety 1  
sales 1  
same 2  
scat 1  
seat 23  
second 1  
section 4  
secure 3  
secured 12  
secures 1  
securing 5  
selects 1  
separate 2  
several 1  
shaped 3  
should 1  
shout 1  
shouting 2  
shown 2  
side 1  
signals 1  
similar 1  
simple 2  
simultaneously 5  
since 1  
single 1  
sized 2  
sizes 1  
slidably 1  
slowing 1  
small 1  
so 1  
some 2  
span 6  
spans 1  
speaker 22  
speakerphone 1  
speakers 1  
specifically 1  
speech 1  
stable 4  
standardization 1  
steer 1  
steering 3  
step 1

steps 1  
still 1  
strap 24  
structural 2  
structurally 3  
structure 25  
structures 1  
sts 1  
subject 1  
such 6  
summary 1  
sun 1  
support 21  
swing 1  
takes 1  
tape 1  
teaches 1  
than 1  
that 30  
the 244  
their 5  
then 4  
there 2  
thereby 7  
therein 1  
thereof 2  
thereto 1  
these 3  
they 1  
this 7  
through 3  
throughout 1  
tile 2  
to 69  
top 9  
traffic 1  
transmission 1  
turn 1  
two 2  
type 6  
unavoidable 1  
under 1  
unit 1  
universal 1  
universally 1  
up 1  
upon 1  
usc 1

use 17  
used 1  
user 11  
using 1  
usual 1  
usually 1  
utility 1  
utilize 1  
variety 1  
various 1  
vehicle 37  
vehicles 2  
via 5  
view 2  
views 1  
virtually 1  
visor 1  
voice 4  
way 1  
well 2  
wheel 1  
when 5  
wherein 3  
which 9  
while 6  
wide 2  
windshield 1  
wipers 1  
wiring 1  
with 36  
words 1  
world 1  
years 1  
yet 2

09929023\_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 09929023 on July 01, 2004

- 7 455/569.2 (4 OR, 3 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.  
 ,  
 TRANSCEIVER)  
 455/550.1 .Radiotelephone equipment detail  
 455/569.1 ..Hands-free or loudspeaking arrangement  
 455/569.2 ...In vehicle
- 6 455/351 (0 OR, 6 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY  
 CONVERTER  
 455/347 .Cabinet, housing, or chassis structure  
 455/351 ..Transportable
- 6 455/557 (3 OR, 3 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.  
 ,  
 TRANSCEIVER)  
 455/550.1 .Radiotelephone equipment detail  
 455/557 ..Interface attached device (e.g., interface  
 with modem, facsimile, computer, etc.)
- 6 455/569.1 (3 OR, 3 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.  
 ,  
 TRANSCEIVER)  
 455/550.1 .Radiotelephone equipment detail  
 455/569.1 ..Hands-free or loudspeaking arrangement
- 5 455/563 (1 OR, 4 XR)  
 Class 455 : TELECOMMUNICATIONS  
 455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.  
 ,  
 TRANSCEIVER)  
 455/550.1 .Radiotelephone equipment detail  
 455/563 ..Having voice recognition or synthesization
- 4 340/990 (0 OR, 4 XR)  
 Class 340 : COMMUNICATIONS: ELECTRICAL

09929023\_CLSTITLES

340/988	VEHICLE POSITION INDICATION
340/989	.At remote location
340/990	..With map display

  

4	455/457	(1 OR, 3 XR)
	Class 455 :	TELECOMMUNICATIONS
	455/403	RADIOTELEPHONE SYSTEM
	455/422.1	.Zoned or cellular telephone system
	455/456.1	..Location monitoring
	455/457	...Location display

  

4	455/556.1	(3 OR, 1 XR)
	Class 455 :	TELECOMMUNICATIONS
	455/73	TRANSMITTER AND RECEIVER AT SAME STATION (E.G.
		TRANSCEIVER)
	455/550.1	.Radiotelephone equipment detail
	455/556.1	..Integrated with other device

  

4	455/570	(2 OR, 2 XR)
	Class 455 :	TELECOMMUNICATIONS
	455/73	TRANSMITTER AND RECEIVER AT SAME STATION (E.G.
		TRANSCEIVER)
	455/550.1	.Radiotelephone equipment detail
	455/569.1	..Hands-free or loudspeaking arrangement
	455/570	...Noise suppression or echo cancellation

  

3	379/388.04	(0 OR, 3 XR)
	Class 379 :	TELEPHONIC COMMUNICATIONS
	379/387.01	SUBSTATION OR TERMINAL CIRCUITRY
	379/388.01	.For loudspeaking terminal
	379/388.04	..Voice control of transmission direction

  

3	379/420.03	(0 OR, 3 XR)
	Class 379 :	TELEPHONIC COMMUNICATIONS
	379/419	TERMINAL
	379/420.01	.Having loudspeaking conversation capability (e.g., hands- free type or speakerphone)
	379/420.03	..Hands-free microphone feature

  

3	455/345	(2 OR, 1 XR)
	Class 455 :	TELECOMMUNICATIONS
	455/130	RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY CONVERTER
	455/344	.Combined with diverse art device
	455/345	..With vehicle

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3 455/566 (0 OR, 3 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.  
                     TRANSCEIVER)  
     455/550.1 .Radiotelephone equipment detail  
     455/566 ..Having display

3 455/575.9 (0 OR, 3 XR)  
     Class 455 : TELECOMMUNICATIONS  
     455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.  
                     TRANSCEIVER)  
     455/550.1 .Radiotelephone equipment detail  
     455/575.1 ..Housing or support  
     455/575.9 ...In vehicle

2 340/995.12 (0 OR, 2 XR)  
     Class 340 : COMMUNICATIONS: ELECTRICAL  
     340/988 VEHICLE POSITION INDICATION  
     340/995.1 .Map display  
     340/995.12 ..Transmission of map data to vehicle

2 342/457 (0 OR, 2 XR)  
     Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS  
                     AND DEVICES  
     342/350 DIRECTIVE  
     342/450 .Position indicating (e.g., triangulation)  
     342/457 ..Land vehicle location (e.g., bus, police car)

2 343/711 (0 OR, 2 XR)  
     Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
     343/700R ANTENNAS  
     343/711 .With vehicle

2 343/807 (0 OR, 2 XR)  
     Class 343 : COMMUNICATIONS: RADIO WAVE ANTENNAS  
     343/700R ANTENNAS  
     343/793 .Balanced doublet - centerfed (e.g., dipole)  
     343/807 ..Tapered, thick, or enlarged arms

2 370/493 (0 OR, 2 XR)  
     Class 370 : MULTIPLEX COMMUNICATIONS  
     370/473 ..Transmission of a single message having  
                     multiple packets  
     370/480 .Combining or distributing information via  
                     frequency channels

09929023\_CLSTITLES

- 370/493 ..Combined voice and data transmission
- 2 370/494 (0 OR, 2 XR)
  - Class 370 : MULTIPLEX COMMUNICATIONS
  - 370/473 ..Transmission of a single message having multiple packets
  - 370/480 .Combining or distributing information via frequency channels
  - 370/493 ..Combined voice and data transmission
  - 370/494 ...Data over voice
- 2 370/495 (0 OR, 2 XR)
  - Class 370 : MULTIPLEX COMMUNICATIONS
  - 370/473 ..Transmission of a single message having multiple packets
  - 370/480 .Combining or distributing information via frequency channels
  - 370/493 ..Combined voice and data transmission
  - 370/495 ...Data under voice
- 2 379/354 (0 OR, 2 XR)
  - Class 379 : TELEPHONIC COMMUNICATIONS
  - 379/350 SUPERVISORY OR CONTROL LINE SIGNALING
  - 379/352 .Substation originated
  - 379/354 ..With called number display
- 2 379/388.03 (0 OR, 2 XR)
  - Class 379 : TELEPHONIC COMMUNICATIONS
  - 379/387.01 SUBSTATION OR TERMINAL CIRCUITRY
  - 379/388.01 .For loudspeaking terminal
  - 379/388.02 ..Speakerphone with build-in microphone
  - 379/388.03 ...Automatic gain or volumn (AGC or AVC)
- 2 379/390.01 (1 OR, 1 XR)
  - Class 379 : TELEPHONIC COMMUNICATIONS
  - 379/387.01 SUBSTATION OR TERMINAL CIRCUITRY
  - 379/388.01 .For loudspeaking terminal
  - 379/390.01 ..Amplification or attenuation level control
- 2 379/420.02 (2 OR, 0 XR)
  - Class 379 : TELEPHONIC COMMUNICATIONS
  - 379/419 TERMINAL
  - 379/420.01 .Having loudspeaking conversation capability (e.g., hands- free type or speakerphone)
  - 379/420.02 ..Hands-free loudspeaker feature
- 2 379/88.01 (0 OR, 2 XR)
  - Class 379 : TELEPHONIC COMMUNICATIONS

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- 379/67.1           AUDIO MESSAGE STORAGE, RETRIEVAL, OR SYNTHESIS
- 379/88.01       .Voice activation or recognition
- 2   379/88.04       (1 OR, 1 XR)
  - Class   379 :   TELEPHONIC COMMUNICATIONS
  - 379/67.1       AUDIO MESSAGE STORAGE, RETRIEVAL, OR SYNTHESIS
  - 379/88.01       .Voice activation or recognition
  - 379/88.04       ..Voice controlled message management
- 2   381/365       (0 OR, 2 XR)
  - Class   381 :   ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
                  AND DEVICES
  - 381/150       ELECTRO-ACOUSTIC AUDIO TRANSDUCER
  - 381/355       .Housed microphone
  - 381/361       ..Mounting or support
  - 381/365       ...In electronic apparatus or vehicle
- 2   381/57       (0 OR, 2 XR)
  - Class   381 :   ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS  
                  AND DEVICES
  - 381/56       MONITORING OF SOUND
  - 381/57       .Amplification control responsive to ambient  
                  sound
- 2   455/128       (0 OR, 2 XR)
  - Class   455 :   TELECOMMUNICATIONS
  - 455/91       TRANSMITTER
  - 455/128       .With casing or housing
- 2   455/456.1     (0 OR, 2 XR)
  - Class   455 :   TELECOMMUNICATIONS
  - 455/403       RADIOTELEPHONE SYSTEM
  - 455/422.1     .Zoned or cellular telephone system
  - 455/456.1     ..Location monitoring
- 2   455/456.3     (2 OR, 0 XR)
  - Class   455 :   TELECOMMUNICATIONS
  - 455/403       RADIOTELEPHONE SYSTEM
  - 455/422.1     .Zoned or cellular telephone system
  - 455/456.1     ..Location monitoring
  - 455/456.3     ...Position based personal service
- 2   455/564       (2 OR, 0 XR)
  - Class   455 :   TELECOMMUNICATIONS
  - 455/73       TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

09929023\_CLSTITLES

TRANSCIEVER)

455/550.1 .Radiotelephone equipment detail  
455/564 ..Auto-dialing or repertory dialing (e.g.,  
using bar code, etc.)

2 455/575.1 (1 OR, 1 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCIEVER)

455/550.1 .Radiotelephone equipment detail  
455/575.1 ..Housing or support

2 455/575.7 (0 OR, 2 XR)  
Class 455 : TELECOMMUNICATIONS  
455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCIEVER)

455/550.1 .Radiotelephone equipment detail  
455/575.1 ..Housing or support  
455/575.7 ...Having specific antenna arrangement

2 455/99 (1 OR, 1 XR)  
Class 455 : TELECOMMUNICATIONS  
455/91 TRANSMITTER  
455/95 .Mobile or portable  
455/99 ..With vehicle

2 701/207 (0 OR, 2 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/200 NAVIGATION  
701/207 .Employing position determining equipment

2 701/225 (0 OR, 2 XR)  
Class 701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND  
RELATIVE LOCATION  
701/200 NAVIGATION  
701/225 .Determining range without range measurement

2 704/233 (2 OR, 0 XR)  
Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,  
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO  
COMPRESSION/DECOMPRESSION  
704/200 SPEECH SIGNAL PROCESSING  
704/231 .Recognition  
704/233 ..Detect speech in noise

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2 704/270 (0 OR, 2 XR)  
Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,  
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO

COMPRESSION/DECOMPRESSION  
704/200 SPEECH SIGNAL PROCESSING  
704/270 .Application

2 704/275 (2 OR, 0 XR)  
Class 704 : DATA PROCESSING: SPEECH SIGNAL PROCESSING,  
LINGUISTICS, LANGUAGE TRANSLATION, AND AUDIO

COMPRESSION/DECOMPRESSION  
704/200 SPEECH SIGNAL PROCESSING  
704/270 .Application  
704/275 ..Speech controlled system

## 09929023\_QUAL

6094496 75  
5687230 62  
5299132 61  
5398190 61  
5513111 61  
5519621 61  
5652707 61  
5832394 61  
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5535258 55  
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6122531 53  
6125289 53  
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6192126 53  
6223154 53  
6226529 53  
6223154 53  
6226529 53  
6259932 53

09929023\_QUAL

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6567651 53